

Title (en)

Channel equalizer for a digital high-definition television receiver.

Title (de)

Kanalentzerrer für digitalen Frensehempfänger mit hoher Auflösung.

Title (fr)

Egalisateur de canal pour un récepteur de télévision numérique à haute définition.

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EP 0677952 A2 19951018 (EN)

Application

EP 94118211 A 19941118

Priority

KR 19940007621 A 19940412

Abstract (en)

This invention relates to a channel equalization system of a VSB transmission system for a HDTV which can correct phase errors by using composite filters as well as by using general data even in a period having no training sequence. The channel equalizer for a HDTV includes, a composite filter part (10) for making the input signal applied from outside produced as I signal and Q signal, filtering the I signal and the Q signal according to composite filter coefficients, and transmitting the filtered I and Q signals as a first, and a second output signals respectively, and a composite filter renewing part (20) for calculating an error for training sequence and an error for general data using synchronization signal received from outside, the first output signal and the second output signal received from the composite filter part, and calculating real composite filter coefficients and an imaginary composite filter coefficients based on the errors for the I signal and the Q signal produced at the composite filter part and training sequence and the error for general data and transmitting the calculated errors to the composite filter part. Accordingly, this invention can improve the converging speed of a VSB transmission system by correcting phase errors using composite filters as well as by carrying out channel equalization using general data even in a period having no training sequence. <IMAGE>

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H04N 5/21

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CPC (source: EP KR US)

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